CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ

ISO 9001:2008 CERTIFIED

Ref No.: CQCE/BBMP/RM/W.No.14/2017-18 Date: 06.10.2017

TEST REPORT ON CEMENT MORTAR CUBES

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Contractor : **Sri. R. Mangalraj,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Bhuvaneshwari Nagar Ward No 14 Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Mortar

Size of cubes : 50mmx50mmx50mm

Cross Sectional Area : 2500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008) & IS: 2250-1981

Compressive Strength as on 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.09.2017	06.10.2017	0.786	13.2	5.28
2	08.09.2017	06.10.2017	0.792	13.6	5.44
3	08.09.2017	06.10.2017	0.763	12.8	5.12

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಮಲ್ಲಾಡಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
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ISO 9001:2000 CERTIFIED

CQCE/BBMP/RM/W.No.14/2017-18 Date: 09.09.2017

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

: **Sri. R. Mangalraj,** Contractor, Bangalore.

: Improvements to roads and drains at Bhuvaneshwari Nagar Ward No 14 Bagalagunte, BBMP, Bangalore.

: 03

: 09.09.2017

: IS:516-1959 (Reaffirmed 1999), SP-24:1983.

: M_{15}

	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
	98.00	78.00	0.341	2227.84	1.56	0.960	32.70	16.65	17.99	17.27	21.58
	98.00	82.00	0.378	2347.73	1.64	0.960	33.50	17.06	18.43	17.69	22.11
	98.00	79.00	0.348	2243.48	1.58	0.960	34.10	17.37	18.76	18.01	22.51

Note:
The report shall not be reproduced, except in full, without the written approval of the laboratory.
The results indicated above are based on the tests carried out on the samples received in the laboratory.
Any Query regarding the report must be reported reported within 15days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ಬಾಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬೆಂಗಳೂರು

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No. CQCE/BBMP/RM/W.No.14/2017-18 Date : 28.09.2018

GRADATION FOR GSB(Coarse Graded-1)
IS : 2720 (Part - 4)

: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore

: **Sri. R. Mangalraj,** Contractor, Bangalore.

: Improvements to roads and drains at Bhuvaneshwari Nagar Ward No 14 Bagalagunte, BBMP, Bangalore.

: 28.09.2018

: Mix Plant Bangalore. Oven Dry Wt (gm) : 5000

GE – 1

Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
75	-	-	-	100	100
26.5	1956	1956	39.12	60.88	55-75
4.75	2148	4104	82.08	17.92	10-30
0.075	625	4729	94.58	5.42	<10

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading 1

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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Date :28.09.2017

CQCE/BBMP/RM/W.No.14/2017-18

ATTERBERG LIMITS TEST FOR GSB (COARSE GRADED)
IS : 2720 (Part - 5)

: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

: **Sri. R. Mangalraj,** Contractor, Bangalore

: Improvements to roads and drains at Bhuvaneshwari Nagar Ward No 14 Bagalagunte, BBMP, Bangalore.

:28.09.2017

MORTH Table : 400-01

Sl.No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	23.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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